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## CURRICULUM VITAE

### PERSONAL PROFILE

Computer Science graduate with a strong foundation in Full-Stack Web Development, Cybersecurity, Data Analysis, and 2D Game Development. Passionate about building scalable, secure, and user-focused software solutions. A fast learner with strong problem-solving skills, adaptable to new technologies, and capable of working effectively in both team-based and remote environments.

### CAREER OBJECTIVE:

To secure an entry-level or junior software development role where I can apply my technical skills, continue learning modern technologies, and contribute to building impactful, market-ready digital solutions.

### EDUCATION:

#### 1. Bachelor of Science in Computer Science

Zetech University, Nairobi, Kenya

*Second Class Honours (Upper Division)*

Graduated: 2026

#### 2. Diploma in Electrical & Electronics Engineering,

Technical University of Mombasa, Mombasa, Kenya

Graduated: 2023

# TECHNICAL SKILLS

## Programming Languages

- Python (OOP)
- JavaScript
- C#
- C++
- HTML5, CSS3

## Frontend Development

- React
- Vite
- Tailwind CSS
- Next.js (learning)

## Backend Development

- Node.js
- Express.js
- MongoDB
- MySQL
- PHP
- Django & Django REST Framework (*basic familiarity*)

## Authentication & State Management

- JWT (JSON Web Tokens)
- Redux (Protected Routes & Role-Based Access)

## Data Analysis & Machine Learning

- Pandas, NumPy
- Scikit-learn
- Matplotlib, Seaborn
- Streamlit (interactive dashboards)
- Decision Trees, Supervised Learning

## Cybersecurity

- Network reconnaissance using **Nmap**
- Web penetration testing using **Gobuster** and **Nikto**
- Vulnerability research using **Exploit Database**
- Basic privilege escalation techniques and security testing using **Metasploit**

## Game Development

- Unity 2D
- C#

## Tools & Platforms

- Git & GitHub
- Linux
- Vercel & Netlify (Deployment)
- REST APIs

# PROJECTS

## Airport Booking Web Application

**Technologies:** React, Vite, Tailwind CSS, Node.js, Express, MongoDB, Redux, JWT

- Developed a full-stack web application for flight search, comparison, and booking.
- Implemented secure authentication, protected routes, and admin functionality.
- Built RESTful APIs and managed application state using Redux.

 GitHub: <https://github.com/alsongard/AirPort-WebApplication>

## Air Quality Index (AQI) Prediction – Machine Learning Project

**Technologies:** Python, Pandas, Scikit-learn, Matplotlib, Seaborn

- Performed data analysis to identify pollutants with the greatest impact on AQI.
- Built a **Decision Tree model** to predict air quality based on pollutant levels.
- Visualized insights to support environmental data interpretation.

🔗 GitHub: [https://github.com/alsongard/Air\\_Quality\\_Index-Prediction-Machine-learning-Model](https://github.com/alsongard/Air_Quality_Index-Prediction-Machine-learning-Model)

### Network Intrusion Detection System (Machine Learning)

**Technologies:** Python, Scikit-learn, Pandas

- Designed and trained a machine learning model to detect **specific network attack** patterns using supervised learning.
- Implemented data preprocessing, feature engineering, and model evaluation.
- Built as a proof-of-concept, with architecture designed to support additional attack classes.

🔗 GitHub: <https://github.com/alsongard/NetSentinel-NIDS>

### YTS.mx Movie Scraper & Analytics Dashboard

**Technologies:** Python, Scrapy, Streamlit

- Scraped over **3,000 movie records** from YTS.mx.
- Built an interactive dashboard for trend analysis and data visualization.

🔗 GitHub: [https://github.com/alsongard/movie\\_series\\_scrapper](https://github.com/alsongard/movie_series_scrapper)

### Monster Chase – 2D Game

**Technologies:** Unity 2D, C#

- Designed and developed a 2D game featuring player mechanics and enemy behavior.

🔗 GitHub: [https://github.com/alsongard/monster\\_chasing\\_game](https://github.com/alsongard/monster_chasing_game)

## WORK EXPERIENCE

### Software Developer Attaché (Tech Attachment)

**Swahilipot Hub Foundation**, Mombasa, Kenya

*Sep 2025 – Apr 2025*

- Developed and maintained **full-stack web applications** using React, Node.js, Express, and Tailwind CSS.
- Built and tested RESTful APIs and managed frontend–backend integration.
- Conducted data analysis and contributed to machine learning models for **network intrusion detection**.
- Collaborated with team members using Git-based workflows and documentation.

## Electrical Installation & Maintenance Attaché

**Egypro East Africa Ltd**, Nairobi, Kenya

*Jan 2023 – Apr 2023*

- Assisted in electrical installations, maintenance, and troubleshooting.
- Documented maintenance procedures, improving response efficiency.
- Worked within an emergency response team while adhering to safety standards.

## CERTIFICATIONS

- Full Stack Development MERN Stack Certification – **Power Learn Project** (Nov 2025)
- Responsive Web Design Developer Certification – **FreeCodeCamp** (June 2024)
- NDG Linux Essentials – **Cisco Networking Academy** (September 2023)
- NDG Linux Unhatched – **Cisco Networking Academy** (April 2023)
- Cybersecurity Essentials – **Cisco Networking Academy** (December 2022)
- Network Security – **Cisco Networking Academy** (November 2022)

## ADDITIONAL INFORMATION

- Strong communication and teamwork skills.
- Highly adaptable and fast learner in new technologies.
- Comfortable working in **remote and distributed teams**.
- Self-motivated with good time management skills.
- Actively learning **Devops** and **PowerBI**.
- Available for **remote, junior, or entry-level software development roles**.

## REFEREES

Available upon request.